	Application No.	Applicant(s)	
Notice of Allowability	09/904,025	DELIMA ET AL.	
	Examiner	Art Unit	
	Jude J. Jean-Gilles	2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *02/09/2007*.

2. ☒ The allowed claim(s) is/are *5,6,9-11,19,20,23-25,31,32 and 35-37*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

           International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Barry L. Jones, Attorney Docket No. RSW920010098US1 on 04 June 2007.

Title

2.   The title of the invention is not descriptive. A new title is required that is clearly

indicative of the invention to which the claims are directed.

The following title is suggested: -- METHOD AND APPARATUS FOR POLICY-

BASED PACKET CLASSIFICATION USING HASHING ALGORITHM--.

IN THE CLAIMS

Please cancel claims 1-4, 7, 8, 12-18, 21, 22, 26-30, 33, 34, and 38 without prejudice or

disclaimer. Please amend claims 5, 9, 11, 19, 23, 25, 31, 35, and 37, of which claims 5,

9, 11, 19, 23, 31, and 35 are in independent forms, as follows:

5.   (Currently amended) ~~The method of claim 1 further comprising:~~ A method in a

data processing system for processing a request, the method comprising:

receiving the request;

responsive to a first hash value being present within the request, comparing the

first hash value to a second hash value, wherein the second hash value represents a

current policy configuration for a quality of service;

responsive to a match between the first hash value and the second hash value,

setting a quality of service based on information associated with the first hash value;

responsive to an absence of a hash value in the request, identifying a policy rule

for processing the request to form an identified policy rule;

identifying a classification for the request using the identified policy rule;

hashing the current policy configuration, of which the identified policy rule is a part,

using a hashing algorithm to generate a current hash value; and

placing the current hash value and the information into the request.

9.   (Currently amended) ~~The method of claim 8 further comprising:~~ A method in a

data processing system for processing a request, the method comprising:

responsive to receiving a request containing a selected cookie in which the

selected cookie includes a first hash value and information associated with the hash

value, determining whether the first hash value corresponds to a second hash value,

wherein the second hash value represents a current policy configuration for processing

requests by the data processing system;

responsive to a correspondence between the first hash value and the second

hash value, processing the request using the information;

responsive to receiving a request containing the selected cookie, determining

whether the selected cookie is stale;

responsive to ~~an absence of~~ a determination that the <u>selected</u> cookie [[being]] <u>is</u>

<u>not</u> stale, generating a new classification for the request ~~for the request~~; and

responsive to a determination that the <u>selected</u> cookie ~~being~~ <u>is</u> stale, preventing

initiation of the ~~determining~~ step of <u>determining whether the first hash value</u>

<u>corresponds to a second hash value</u>.

11. The method of claim <u>9</u>, [[8,]] wherein the selected cookie includes a universal

resource identifier, a user identification, and a user group identification.

19.   (Currently amended) ~~The data processing system of claim 15 further comprising:~~

<u>A data processing system for processing a request, the comprising:</u>

<u>receiving means for receiving the request;</u>

<u>comparing means, responsive to a first hash value being present within the</u>

<u>request, for comparing the first hash value to a second hash value, wherein the second</u>

<u>hash value represents a current policy configuration for a quality of service; and</u>

<u>setting means, responsive to a match between the first hash value and the</u>

<u>second hash value, for setting a quality of service based on information associated with</u>

<u>the first hash value;</u>

first identifying means, responsive to an absence of a hash value in the request,

for identifying a policy rule for processing the request to form an identified policy rule;

second identifying means for identifying a classification for the request using the identified policy rule;

hashing means for hashing the current policy configuration, of which the identified policy rule is a part, using a hashing algorithm to generate a current hash value; and

placing means for placing the current hash value and the information into the request.

23.   (Currently amended) ~~The method of claim 22~~ , A data processing system for processing a request, the data processing system comprising:

first determining means, responsive to receiving a request containing a selected cookie in which the selected cookie includes a first hash value and information associated with the hash value, for determining whether the first hash value corresponds to a second hash value, wherein the second hash value represents a current policy configuration for processing requests by the data processing system;

processing means, responsive to a correspondence between the first hash value and the second hash value, for processing the request using the information;

~~wherein the determining means is a first determining means and further comprising:~~

second determining means, responsive to receiving a request containing the selected cookie, for determining whether the selected cookie is stale;

generating means, responsive to ~~an absence of~~ a determination that the cookie [[being]] is not stale, for generating a new classification for the request; and

preventing means, responsive to <u>a determination that</u> the cookie [[being]] is stale,

for preventing initiation of the <u>first</u> determining means.

25. (Currently amended) The data processing system of claim <u>23,</u> [[22]], wherein the

selected cookie includes a universal resource identifier, a user identification, and a

group identification.

31.   (Currently amended) ~~The computer program product of claim 27 further~~

~~comprising:~~ <u>A computer program product in a computer readable medium for</u>

<u>processing a request, the computer program product comprising:</u>

<u>first instructions for receiving the request;</u>

<u>second instructions, responsive to a first hash value being present within the</u>

<u>request, for comparing the first hash value to a second hash value, wherein the second</u>

<u>hash value represents a current policy configuration for a quality of service;</u>

<u>third instructions, responsive to a match between the first hash value and the</u>

<u>second hash value, for setting a quality of service based on information associated with</u>

<u>the first hash value.</u>

fourth instructions, responsive to an absence of a hash value in the request, for

identifying a policy rule for processing the request to form an identified policy rule;

fifth instructions for identifying a classification for the request using the identified

policy rule;

sixth instructions for hashing the current policy configuration, of which the

identified policy rule is a part, using a hashing algorithm to generate a current hash

value; and

seventh instructions for placing the current hash value and the information into

the request.

35.   (Currently amended) ~~The computer program product of claim 34 further~~

~~comprising:~~A computer program product in a computer readable medium for processing

a request, the computer program product comprising:

first instructions, responsive to receiving a request containing a selected cookie

in which the selected cookie includes a first hash value and information associated with

the hash value, for determining whether the first hash value corresponds to a second

hash value, wherein the second hash value represents a current policy configuration for

processing requests by the data processing system;

second instructions, responsive to a correspondence between the first hash

value and the second hash value, for processing the request using the information;

third instructions, responsive to receiving a request containing the selected

cookie, for determining whether the selected cookie is stale;

fourth instructions, responsive to an absence by a determination that the cookie

[[being]] is not stale, for generating a new classification for the request; and fifth

instructions, responsive to a determiniation that the selected cookie being stale, for

preventing initiation of the first determining step.

37. The computer program product of claim 35, [[34]], wherein the selected cookie

includes a universal resource identifier, a user identification, and a group identification.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the closet

prior art of record (Moses, U.S. Patent No. 6,499,110 B1) does not teach nor suggest in

detail "responsive to an absence of a hash value in the request, identifying a policy rule

for processing the request to form an identified policy rule; identifying a classification for

the request using the identified policy rule; hashing the current policy configuration, of

which the identified policy rule is a part, using a hashing algorithm to generate a current

hash value; and placing the current hash value and the information into the request."

The dependent claims further limit the independent claims and are considered

allowable on the same basis as the independent claims as well as for the further

limitations set forth.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany

the issue fee. Such submissions should be clearly labeled "Comments on Statement of

Reasons for Allowance."

3.   **Claims 5, 6, 9-11, 19, 20, 23-25, 31, 32, and 35-37** are allowed. Renumbered 1-

15.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jude jean-Gilles whose telephone number is (571) 272-3914. The examiner can normally be reached on 8:00-6:00, 1st and 2nd Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
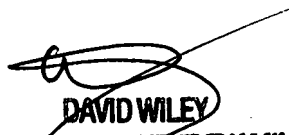
Jude Jean-Gilles

Patent Examiner

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06/06/2007

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